## Speak softly and carry a bold computer

Step out and be seen with the portable, powerful and colorful VAIO® CR notebook, a 14.1"[6] notebook with XBRITE-ECO™ LCD technology. This thin-and-light mobile masterpiece features an array of entertainment and design extras, including Stereo A2DP Bluetooth technology[16], a built-in webcam, AV controls, powerful, cutting-edge technologies and a comfortable, easy-to-clean keyboard.

Windows Vista Home Premium

802.11 WiFi CERTIFIED

Bluetooth

dlna CERTIFIED

XBRITE-ECO™

RoHS COMPLIANT

# VGN-CR520E/N

## VAIO® CR Series Notebook PC

## Specifications

### General

Computer Type: Notebook
Type of Use: Portable
Action Buttons: Play/ Pause/ Stop, Fast Forward, Rewind, AV Mode, Mute, Volume-/+, Capture and Display off, WLAN on/off
Pointing Device: Electro-Static touch pad

### Hardware

Keyboard: QWERTY, 82 keys with 2mm stroke and 18.05mm pitch
Camera: Built-in 1.3 megapixel MOTION EYE® camera and microphone

### Processor

Type: Intel® Core™ 2 Duo Processor T8100
Speed: 2.10GHz[1]
Front Side Bus Speed: 800MHz
L2 Cache: 3MB
Technology: Intel® Centrino® Duo Processor Technology

### Memory

Type: DDR2
Installed: 3GB PC2-5300 (2GBx1 + 1GBx1)[15]
Maximum: 4GB[15]
Speed: 667MHz

### Hard Drive

Capacity: 320GB[2]
Speed: 5400rpm
Interface: Serial ATA

### Optical Drive #1

DVD+R DL Write: 6x max
DVD+R Write: 8x max
DVD+RW Write: 8x max
DVD-R Write: 8x max
DVD-RW Write: 6x max
CD-R Write: 24x max
CD-RW Write: 24x max
DVD±RW: Yes[5] (DVD±R DL/DVD±RW/RAM)
CD Read: 24x max
DVD Read: 8x max
DVD-RAM Write: 5x max
DVD-R DL Write: 6x max
DVD-RAM Read: 5x max

### Expansion Slots

Multimedia Card Reader: One Memory Stick Duo™ media slot with MagicGate® functionality
One ExpressCard® /34 slot
One Secure Digital (SD™ memory card) media slot

### Audio

Sound System: Intel® High Definition Audio

### Display

Screen Size: 14.1"[6]
Resolution: 1280 x 800
XBRITE-ECO™ Technology: Yes
Technology: WXGA

### Graphics

Processor: Mobile Intel® Graphics Media Accelerator X3100 with Intel® Clear Video Technology with Total Available Graphics Memory of 358MB (max.)[10]
Chipset: Intel® GM965 Express Chipset
Interface: VGA and S-Video Out with Smart Display Sensor

### Inputs and Outputs

Headphone Jack: 1
Modem Jack: 1
Microphone Input: 1
S-Video Output(s): 1
USB Port(s): 3 (2.0 compliant)
VGA Output(s): 1
DC-In: 1
i.LINK® Connection: 1 (4pin) i.LINK® connector (IEEE 1394)[9]
Ethernet Connection (s): 1

### Networking/Modem

Ethernet Protocol: 10Base-T/100Base-TX
Ethernet Speed: Fast Ethernet (RJ-45)
Modem Type: Integrated V.92/V.90 Modem (RJ-11)
Wireless LAN: Intel® PRO/Wireless 4965AGN Network Connection (802.11a/b/g/n)[3]
Bluetooth® Technology: Integrated Stereo A2DP Bluetooth® Technology[16]

### Power

Battery Type: Standard Capacity Lithium-ion Battery (VGP-BPS9/S)
Estimated Battery Life: 2.0-4.0 hours[11] Standard Capacity Battery
3.5-7.5 hours[11] Large Capacity Battery
Power Requirements: 86W + 10%

### Software

Operating System: Genuine Microsoft® Windows Vista® Home Premium with SP1
Internet Services: AOL® 90-Day Risk Free Trial - New Users Only
Supplied Software: Microsoft® Works SE 9.0 w/ 60-Day Trial Version of Microsoft® Office Home and Student 2007[14]
Security and Anti-Virus Software: Microsoft® Windows Live™ OneCare™ Trial Version
The VAIO® Software Experience: VAIO® Startup Assistant
Click to Disc Editor - Import, Edit, Burn
VAIO® Movie Story - Simple Movie Creation
VAIO® MusicBox - Music by Mood
*Please access VAIO® Help and Support from your PC for a complete list of software applications and trials.

### Service and Warranty Information

Telephone Support: 1 year toll-free technical telephone assistance, available 24/7[13]
Online and Email Support: Support available from http://www.esupport.sony.com/EN/VAIO
Limited Warranty Term: 1 year limited warranty[12]. See actual warranty for details.

### Environmental Information

RoHS®: Compliant
For more information: www.sony.com/vaioeco

### Dimensions

Weight: 5.49 lbs[7] (with standard battery)
Measurements: 13.2"(W) x 0.83-1.51"(H) x 9.8"(D)[7,8]

### Supplied Accessories

Standard Capacity Lithium-ion battery (VGP-BPS9/S)
AC Adapter (VGP-AC19V19)
Power Cable

### Optional Accessories

Large Capacity Battery (VGP-BPL9)
Additional Standard Lithium-ion Battery (VGP-BPS9A/S)
Stick AC Adapter (VGP-AC19V21)
USB Optical Mouse(VGP-UMS20/N)
Bluetooth® Laser Mouse (VGP-BMS33/N)
USB Portable Speaker (VGP-USP1)
100GB[9] Portable Hard Drive with Wireless Keys (VGP-UHDM10/B)
Slip Case with VAIO Smart Protection® technology in Champagne Gold (VGP-CKC2/N)
Neoprene Notebook and AC Adapter Case (VGP-AMC5)
Notebook Backpack (VGP-CCP3/H)

Color: Champagne Gold
UPC Code: 027242743083

1. GHz denotes microprocessor internal clock speed; other factors may affect application performance. CPU speed will be reduced under certain operating conditions.
2. GB means one billion bytes when referring to hard drive capacity. Accessible capacity may vary. A portion of hard disk space is reserved as a recovery partition.
3. Requires 802.11n compatible access point. Some functionality may require Internet services, which may require a fee.
4. Broadband Internet service required along with third party services which may require a subscription or other service fee.
5. DVD media/formats are not universally compatible.
6. Viewable area measured diagonally.
7. Non-metric weights and measures are approximate and may vary.
8. Measured at the narrowest point
9. i.Link is a trademark of Sony used only to designate that a product contains an IEEE 1394 connector. All products with an i.LINK connector may not communicate with each other.
10. Total Available Graphics Memory refers to the new Windows Vista® classification of graphics memory, which is the total of Dedicated Video Memory, System Video Memory and Shared System Memory. Shared System Memory varies depending on the operating condition and system memory size.
11. Actual battery life may vary based on product settings, usage patterns and environmental conditions. Battery life will be shorter with models equipped with Instant Mode features.
12. See actual limited warranty for details. For a copy of Sony's warranty, please visit www.sony.com/pcsupport, call toll-free 888-476-6972 (888-4SONYPC) or write to Sony Electronics, 12451 Gateway Boulevard, Fort Myers, FL 33913.
13. For certain third party software applications, Sony provides first level phone support. Additional telephone support may be available from the applicable 3rd party vendor. Availability and schedule for any such support is determined by the aplicable software vendor.
14. 60-Day Trial Version of Microsoft® Office 2007 - This trial software will work only for 60 days after you first use it. You will not be able to use the software if you dont activate it as described the first time you use the software. You can activate the software by Internet: Internet service charges may apply. If you want to keep using the software after the 60-day trial period, you must convert to the perpetual version. You can convert online by following the conversion instgructions presented during setup and paying the required fees.
15. A portion of the system memory over 3GB may not be available to the operating system.
16. Interoperability and compatibility among Bluetooth® devices varies.

Computer Interface: For this product,there are a multitude of varying software packages and add-on hardware options. This product is not manufactured to work with any specific software, and Sony does not and cannot make any warranty or representation with respect to the performance of this product with any particular software packages and/or non-Sony add-on hardware options except those mentioned here. Sony hereby disclaims any representations or warranties that this product is compatible with any combination of non-Sony products you may choose to connect to it. While Sony representatives or Sony authorized dealers may be able to assist you and may make recommendations, they are NOT authorized to vary or waive this disclaimer. Purchasers must determine for themselves the suitability and compatibility of the hardware and software in each and every particular instance. Software titles pre-installed on the Sony computer are subject to change without notice. Preinstalled software may not be identical to retail versions or have all documentation. Features and specifications are subject to change without notice.
Lamp in this product contains mercury. Disposal of these materials may be regulated due to environmental considerations. For disposal or recycling information, please contact your local authorities or the Electronic Industries Alliance (www.eiae.org).
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Printed in U.S.A. 04/08.